

### Features

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering:  
260°C/10 seconds at terminals
- Component in accordance to  
RoHS 2002/95/1 and WEEE 2002/96/EC



SMA (DO-214AC)

### Mechanical Date

- **Case:** JEDEC DO-214AC molded plastic
- **Terminals:** Solder plated, solderable per  
J-STD-002B and JESD22-B102D
- **Polarity:** Laser band denotes cathode end

### Major Ratings and Characteristics

$I_{F(AV)}$	3.0A
$V_{RRM}$	20 V to 200 V
$I_{FSM}$	100A
$V_F$	0.50V, 0.55V, 0.70V, 0.85V, 0.95V
$T_j \text{ max.}$	125 °C

### Maximum Ratings & Thermal Characteristics

( $T_A = 25\text{ °C}$  unless otherwise noted)

Items	Symbol	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS310A	SS315A	SS320A	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current	$I_{F(AV)}$	3									A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	$I_{FSM}$	100									A
Voltage rate of change (rated $V_R$ )	dv/dt	10000									V/ $\mu$ s
Thermal resistance from junction to lead <sup>(1)</sup>	$R_{\theta JL}$	35									°C/W
Operating junction and storage temperature range	$T_J, T_{STG}$	-65 to +125									°C

Note 1: Mounted on P.C.B. with 0.28 x 0.28" (7.0 x 7.0mm) copper pad areas.

### Electrical Characteristics

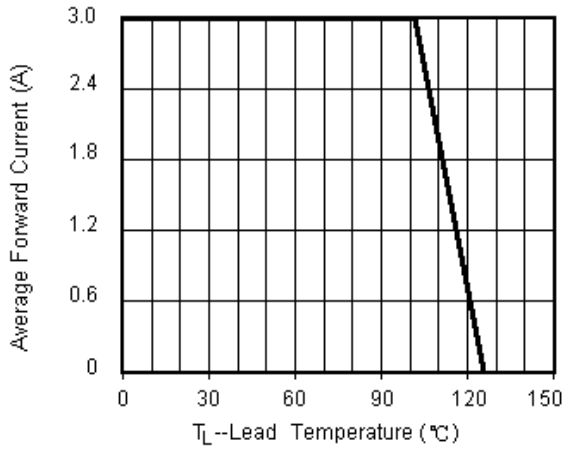
( $T_A = 25\text{ °C}$  unless otherwise noted)

Items	Test conditions	Symbol	SS32A	SS33-34A	SS35-36A	SS38-310A	SS315-320A	UNIT	
Instantaneous forward voltage	$I_F=3.0A^{(2)}$	$V_F$	0.50	0.55	0.70	0.85	0.95	V	
Reverse current	$V_R=V_{DC}$	$I_R$	$T_J=25\text{ °C}$				0.5		mA
			$T_J=100\text{ °C}$				5.0		

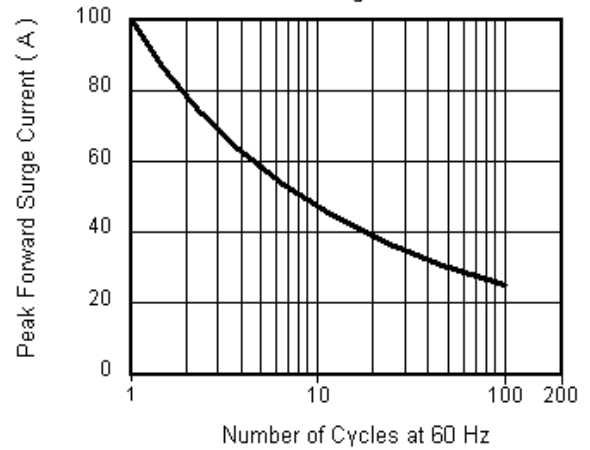
Note 2: Pulse test:300 $\mu$ s pulse width,1% duty cycle.

## Characteristic Curves ( $T_A=25^\circ\text{C}$ unless otherwise noted)

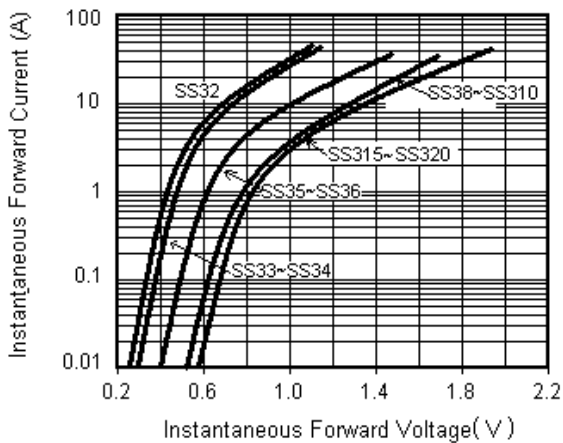
**Fig.1 Forward Current Derating Curve**



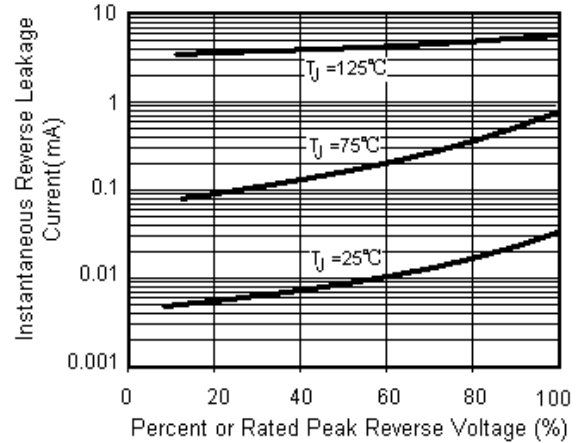
**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current**



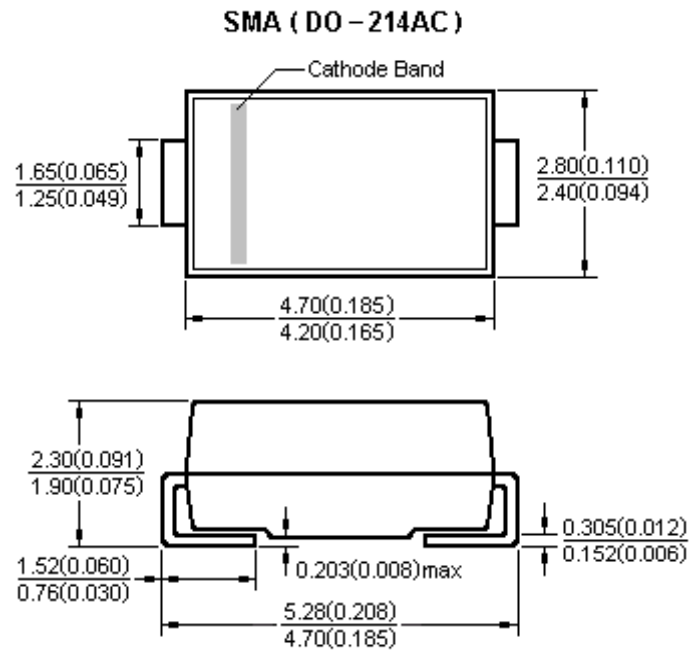
**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Reverse Leakage Characteristics**



## Package Outline



Dimensions in millimeters and (inches)

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